



**1 GLENN'S CAMPUS FLOOR PLAN**  
A-10A-10 SCALE: 1/16" = 1'-0"

0 5 10 20 30 40 50  
SCALE: 1/16" = 1'-0"

**EXISTING FACILITY BUILDING CODE**  
VIRGINIA FIRE SAFETY REGULATIONS  
- LATE 1960'S

**BUILDING CODES**  
2006 VIRGINIA REHABILITATION CODE (PART II OF THE VUSBC)  
REFERENCES: 2006 INTERNATIONAL BUILDING CODE  
2006 INTERNATIONAL PLUMBING CODE  
2006 INTERNATIONAL MECHANICAL CODE  
2005 NATIONAL ELECTRICAL CODE  
2006 INTERNATIONAL FUEL GAS CODE  
2006 INTERNATIONAL ENERGY CONSERVATION CODE  
2006 INTERNATIONAL FIRE CODE

**ACCESSIBILITY STANDARD:**  
ADAAG - JULY 23, 2004  
- EXEMPT FROM ADA (PAGES 72 TO 140)

**TYPE OF CONSTRUCTION**  
TYPE - II B  
FULLY SPRINKLERED PER VUSBC 903.3.1.1

**OCCUPANCY CLASSIFICATION**  
MIXED SEPARATED:  
GROUP B (BUSINESS)  
ACCESSORY USE GROUP WITHIN BUSINESS A-3  
(3637 S.F. LESS THAN 10% AREA)  
GROUP A-3 (ASSEMBLY)

**BUILDING USE**  
HIGHER EDUCATION / LIBRARY (UNCHANGED)

**ALLOWABLE HEIGHT (TABLE 503 + 504.2)**  
ALLOWABLE HEIGHT 2 STORIES / 55 FT.  
SPRINKLER ADJUSTMENTS +1 STORY / 20 FT.  
TOTAL ALLOWABLE 3 STORIES / 75 FT.

**ACTUAL: 1 STORY & 19'-9"**

**ALLOWABLE AREA (TABLE 503 + 506)**

**GROUP B OCCUPANCY**  
TABULAR AREA = 23,000 SQ. FT.  
 $I_A = \left[ \frac{1,425}{23,000} - 0.25 \right] \frac{30}{30} = .75$   
 $I_A = 3$   
 $A_A = 23,000 + [(23,000)(.75)] + [(23,000)(3)] = 109,250$  SQ. FT.

**GROUP A-3 OCCUPANCY**  
TABULAR AREA = 9,500 SQ. FT.  
 $I_A = \left[ \frac{1,425}{9,500} - 0.25 \right] \frac{30}{30} = .75$   
 $I_A = 3$   
 $A_A = 9,500 + [(9,500)(.75)] + [(9,500)(3)] = 45,125$  SQ. FT.

**SEPARATED OCCUPANCIES ALLOWABLE AREA RATIO**  
 $\frac{51,928}{109,250} = 4.552$   
 $4.552 \leq .46 + .10 = .56 \leq 1$

**BUILDING AREA**  
TYPE B OCCUPANCY 51,928 SQ. FT.  
TYPE A-3 OCCUPANCY 4,552 SQ. FT.  
GROUND FLOOR 56,480 SQ. FT.

**EMERGENCY SHELTER**  
THIS BUILDING IS NOT DESIGNATED AS AN EMERGENCY SHELTER

**SEISMIC DESIGN CATEGORY**  
EXISTING BUILDING = NOT APPLICABLE  
NEW CONSTRUCTION = SEISMIC DESIGN CATEGORY "B"

## CODE DATA

### OCCUPANCY LOAD (TABLE 1004.1.1)

SEPARATED B USE GROUP	
BUSINESS =	30,758 GROSS SQ. FT. PER OCCUPANT = 308 OCCUPANTS
EDUCATIONAL =	11,728 GROSS SQ. FT. PER OCCUPANT = 587 OCCUPANTS
(CLASSROOM)	
EDUCATIONAL =	5,587 GROSS SQ. FT. PER OCCUPANT = 112 OCCUPANTS
(VOCATIONAL)	
MERCANTILE =	654 GROSS SQ. FT. PER OCCUPANT = 22 OCCUPANTS
STORAGE/MECH. =	30 GROSS SQ. FT. PER OCCUPANT = 8 OCCUPANTS
2,337 GROSS SQ. FT. PER OCCUPANT = 8 OCCUPANTS	
ACCESSORY A-3 USE GROUP	
A-3 =	1,089 GROSS SQ. FT. PER OCCUPANT = 73 OCCUPANTS
(LECTURE)	
A-3 =	15 GROSS SQ. FT. PER OCCUPANT = 106 OCCUPANTS
(LIBRARY READING)	
A-3 =	1,907 GROSS SQ. FT. PER OCCUPANT = 20 OCCUPANTS
(LIBRARY STACK)	
A-3 =	100 GROSS SQ. FT. PER OCCUPANT = 7 OCCUPANTS
BUSINESS =	699 GROSS SQ. FT. PER OCCUPANT = 7 OCCUPANTS

TOTAL OCCUPANT LOAD = 1,278 OCCUPANTS

### FIRE RESISTANCE RATING (TABLES 601 + 506.3.3)

STRUCTURAL FRAME -	0 HR.
EXTERIOR BEARING WALLS -	0 HR.
INTERIOR BEARING WALLS -	0 HR.
INTR. BEARING WALLS (ROOF ONLY) -	0 HR.
NON-BEARING WALLS & PART. -	0 HR.
FLOOR CONSTRUCTION -	0 HR.
ROOF CONSTRUCTION -	0 HR.
CORRIDOR WALLS -	0 HR.
STORAGE OVER 100 SF -	0 HR.
SEPARATION (A + B) -	1 HR.

### PLUMBING FIXTURE COUNT

USE AND OCCUPANCY UNCHANGED FROM ORIGINAL CONSTRUCTION

#### WATER CLOSETS

	MEN	WOMEN
ORIGINAL BUILDING	11 (7 UR.)	10
NEW DESIGN	11 (4 UR.)	11 + 1 UNSEX

#### LAVATORIES

	MEN	WOMEN
ORIGINAL BUILDING	8	9
NEW DESIGN	9	9 + 1 UNSEX

#### DRINKING FOUNTAIN

	TOTAL
ORIGINAL BUILDING	6
NEW DESIGN	8

#### SERVICE SINK

	TOTAL
ORIGINAL BUILDING	2
NEW DESIGN	2

#### EYEWASH / EMERGENCY SHOWER

TOTAL REQUIRED = 5

TOTAL PROVIDED = 5

mbj ARCHITECTURE  
A Professional Limited Company  
GROVE PARK SQUARE  
1151-B NUCKOLS ROAD  
Glen Allen, Virginia 23069  
(804) 273-9811 fax: (804) 273-9843

**RAPPAHANNOCK  
COMMUNITY COLLEGE  
CAMPUS RENOVATIONS  
WARSAW + GLENN'S, VIRGINIA**

PC: 260-17712

**FIRE PROTECTION INFORMATION  
GLENN'S CAMPUS**

Date: MAY 11, 2010

NO.	DATE

STEPHEN FLOYD  
Professional Engineer  
State of Virginia  
License No. 014047  
5/13/2010

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